Microsoft Excel 16.0 Answer Report
Worksheet: [OR.xlsx]Sheet3
Report Created: 05-02-2022 11:59:40
Result: Solver found a solution. All Constraints and optimality conditions are satisfied.
Solver Engine

Engine: Simplex LP
Solution Time: 0.063 Seconds.
Iterations: 5 Subproblems: 0

Solver Options

Max Time Unlimited, Iterations Unlimited, Precision 0.000001, Use Automatic Scaling
Max Subproblems Unlimited, Max Integer Sols Unlimited, Integer Tolerance 1%, Assume NonNegative

Objective Cell (Max)

Cell	Name	Original Value	Final Value
$B$7	Maximize	0	46000

Variable Cells

Cell	Name	Original Value	Final Value	Integer
$B$2	X1	0	0	Contin
$B$3	X2	0	200	Contin
$B$4	X3	0	500	Contin

Constraints

Cell	Name	Cell Value	Formula	Status	Slack
$B$10		600	$B$10<=$D$10	Binding	0
$B$11		400	$B$11<=$D$11	Binding	0
$B$12		533.3333333	$B$12<=$D$12	Not Binding	266.6666667
$B$13		0	$B$13>=$D$13	Binding	0
$B$14		200	$B$14>=$D$14	Not Binding	200
$B$15		500	$B$15>=$D$15	Not Binding	500

Variables			
X1	0		
X2	200		
X3	500		
Objective			
Maximize	46000		
Constraint		Inequality	RHS
1	600	<=	600
2	400	<=	400
3	533.3333	<=	800
4	0	>=	0
5	200	>=	0
6	500	>=	0

Microsoft Excel 16.0 Answer Report
Worksheet: [OR.xlsx]Sheet3
Report Created: 05-02-2022 11:58:27
Result: Solver found a solution. All Constraints and optimality conditions are satisfied.
Solver Engine

Engine: Simplex LP
Solution Time: 0.047 Seconds.
Iterations: 5 Subproblems: 0

Solver Options

Max Time Unlimited, Iterations Unlimited, Precision 0.000001
Max Subproblems Unlimited, Max Integer Sols Unlimited, Integer Tolerance 1%, Assume NonNegative

Objective Cell (Min)

Cell	Name	Original Value	Final Value
$B$7	Minimize	0	46000

Variable Cells

Cell	Name	Original Value	Final Value	Integer
$B$2	y1	0	50	Contin
$B$3	y2	0	40	Contin
$B$4	y3	0	0	Contin

Constraints

Cell	Name	Cell Value	Formula	Status	Slack
$B$10		76.66666667	$B$10>=$D$10	Not Binding	36.66666667
$B$11		80	$B$11>=$D$11	Binding	0
$B$12		60	$B$12>=$D$12	Binding	0
$B$13		50	$B$13>=$D$13	Not Binding	50
$B$14		0	$B$14>=$D$14	Binding	0
$B$15		0	$B$15>=$D$15	Binding	0

Variables			
y1	50		
y2	40		
y3	0		
Objective			
Minimize	46000		
Constraint		Inequality	RHS
1	76.66667	>=	40
2	80	>=	80
3	60	>=	60
4	50	>=	0
5	0	>=	0
6	0	>=	0